

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	78850	brine	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:39
L2	1731617	silver or Ag	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:39
L3	12302	I1 and I2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:39
L4	1305	I1 same I2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:40
L5	876167	chloride	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:40
L6	1181	I4 and I5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:40
L7	415	I4 same I5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:40
L8	308483	recycl\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:40
L9	78	I7 and I8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:41
L10	119906	carboxylate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 06:21
L11	20	I9 and I10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 05:43
L12	7	("5139981").URPN.	USPAT	OR	ON	2006/03/07 05:46

EAST Search History

L13	1	"4615806".PN.	USPAT; USOCR	OR	ON	2006/03/07 05:46
L14	14026	silver adj nitrate	USPAT	OR	ON	2006/03/07 05:47
L15	2265	l1 same l10	USPAT	OR	ON	2006/03/07 05:47
L16	90	l14 and l15	USPAT	OR	ON	2006/03/07 05:47
L17	379	562/609.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 08:42
L18	2	l14 and l17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 06:18
L19	4	"4440649".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 06:18
L20	68	l1 near10 l10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 06:22
L21	16	l2 and l20	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 06:25
L22	7	"0572113"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 06:54
L23	42	((carboxylate and (brine or solution)) and chloride and silver).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 07:31
L24	15	((carboxylate and (brine or solution)) and chloride and silver).clm.	US-PGPUB	OR	ON	2006/03/07 06:56
L25	2	"5139981".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 07:31
L26	711	562/607.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 08:42
L27	7	l14 and l26	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/03/07 08:42

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NEWS	7	DEC 21	IPC search and display fields enhanced in CA/CAPLUS with the IPC reform
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NEWS	9	JAN 13	IPC 8 searching in IFIPAT, IFIUIDB, and IFICDB
NEWS	10	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS	11	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	12	JAN 17	IPC 8 in the WPI family of databases including WPIFV
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NEWS	17	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	18	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	19	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	20	FEB 28	MEDLINE/LMEDLINE reload improves functionality
NEWS	21	FEB 28	TOXCENTER reloaded with enhancements
NEWS	22	FEB 28	REGISTRY/ZREGISTRY enhanced with more experimental spectral property data
NEWS	23	MAR 01	INSPEC reloaded and enhanced
NEWS	24	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS EXPRESS			FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT http://download.cas.org/express/v8.0-Discover/
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FULL ESTIMATED COST	0.84	0.84

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* The CA roles and document type information have been removed from *
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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```
=> e cesium formate/cn
E1      1      CESIUM FLUOZIRCONATE(IV)/CN
E2      1      CESIUM FORMANILIDE/CN
E3      1 --> CESIUM FORMATE/CN
E4      1      CESIUM FORMATE (1:2)/CN
E5      1      CESIUM FORMATE, CESIUM DERIV./CN
E6      1      CESIUM FULLERENE/CN
E7      1      CESIUM FULLERENE (CS3C60)/CN
E8      1      CESIUM FULLERENE (CSC60)/CN
E9      1      CESIUM FULLERENE HOMOPOLYMER/CN
E10     1      CESIUM FULLERIDE/CN
E11     1      CESIUM FULLERIDE (C60CS)/CN
E12     1      CESIUM FULLERIDE (CS0.6C60)/CN
```

```
=> e3
L1      1 "CESIUM FORMATE"/CN
```

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 3495-36-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN Formic acid, cesium salt (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cesium formate (7CI)
MF C H2 O2 . Cs
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB,
CHEMCATS, CHEMLIST, CIN, CSCHM, DETHERM*, GMELIN*, IFICDB, IFIPAT,
IFIUDB, MSDS-OHS, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (64-18-6)

O=CH-OH

● Cs

155 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
156 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
7.10	7.94

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FILE LAST UPDATED: 6 Mar 2006 (20060306/ED)

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=> 11

L2 156 L1

=> silver or Ag

307290 SILVER
127 SILVERS
307345 SILVER
(SILVER OR SILVERS)
307946 AG
4922 AGS
311359 AG
(AG OR AGS)

L3 440609 SILVER OR AG

=> l2 and l3

L4 4 L2 AND L3

=> d l4 1-4 ti

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Removal of chloride ion contaminant from alkali metal carboxylate drilling fluid brines by treatment with **silver** nitrate and removal of **silver** chloride

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Heavy liquids based on Cs or Rb salts for gravity separation of coal, minerals, and/or ores

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Computer estimation of heat and free energy of formation for simple inorganic compounds

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Action of carbon monoxide on cesium hydroxide (synthesis of cesium formate)

=> d l4 1-4 ti fbib abs

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Removal of chloride ion contaminant from alkali metal carboxylate drilling fluid brines by treatment with **silver** nitrate and removal of **silver** chloride
AN 2004:41427 CAPLUS
DN 140:96598
TI Removal of chloride ion contaminant from alkali metal carboxylate drilling fluid brines by treatment with **silver** nitrate and removal of **silver** chloride
IN Murray, James; Tobin, Edmund Austin; Warren, Stephen Geoffrey
PA Johnson Matthey Public Limited Company, UK; Aubin Limited
SO PCT Int. Appl., 9 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	WO 2004005234	A2	20040115	WO 2003-GB2843	20030702
	WO 2004005234	A3	20050506		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

CA 2491380	AA	20040115	GB 2002-15384	A	20020704
			CA 2003-2491380		20030702
			GB 2002-15384	A	20020704
			WO 2003-GB2843	W	20030702
AU 2003246926	A1	20040123	AU 2003-246926		20030702
			GB 2002-15384	A	20020704
			WO 2003-GB2843	W	20030702
EP 1549601	A2	20050706	EP 2003-762768		20030702
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
			GB 2002-15384	A	20020704
			WO 2003-GB2843	W	20030702
NO 2004005170	A	20050131	NO 2004-5170		20041125
			GB 2002-15384	A	20020704
			WO 2003-GB2843	W	20030702
US 2006009649	A1	20060112	US 2005-520226		20050817
			GB 2002-15384	A	20020704
			WO 2003-GB2843	W	20030702

AB Alkali metal carboxylate salt brines, such as cesium and/or potassium formate brine, are used in oil and gas drilling procedures and the contamination with chloride ions can be controlled by treatment with a silver nitrate solution, and removing the formed silver chloride. High-d. brines can thus be obtained which are suitable for reuse.

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 TI Heavy liquids based on Cs or Rb salts for gravity separation of coal, minerals, and/or ores
 AN 2000:421355 CAPLUS
 DN 133:46432
 TI Heavy liquids based on Cs or Rb salts for gravity separation of coal, minerals, and/or ores
 IN Young, Tom L.; Bauer, Kathy; Greene, Michael G.; Young, Sharon K.
 PA Versitech, Inc., USA
 SO PCT Int. Appl., 14 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000036165	A2	20000622	WO 1999-US30194	19991216
	WO 2000036165	A3	20021003		
	W:				
	AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, TZ, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW:				
	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				US 1998-112550P	P 19981216
AU 2000025905	A1	20000703	AU 2000-25905		19991216
			US 1998-112550P	P	19981216
			WO 1999-US30194	W	19991216

AB The non-toxic high-d. liqs. and slurries based on the Cs or Rb salts are suitable for separation of ores with recovery of minerals by the sink-float method. The Cs salts are typically selected from formate, tungstate, molybdate, or uranate, and the aqueous salt solution is optionally modified with

powdered ferrosilicon or WC for the preparation of high-d. slurry. The high-d. aqueous solns. typically have low viscosity for the rapid sink-float separation of

powdered target minerals from the ore feed milled to the particle size of 150-1700 µm. The aqueous Cs formate with the sp. gr. of 2.337 is suitable for rapid separation of coal, graphite, and similar low-d. minerals, and the

aqueous Cs tungstate with sp. gr. of 3.013 is effective for separation of SiO₂-rich gangue from sulfide mineral values.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Computer estimation of heat and free energy of formation for simple inorganic compounds
AN 1963:445341 CAPLUS
DN 59:45341
OREF 59:8190e-g
TI Computer estimation of heat and free energy of formation for simple inorganic compounds
AU Wilcox, D. E.; Bromley, L. A.
CS Univ. of California, Berkeley
SO Journal of Industrial and Engineering Chemistry (Washington, D. C.) (1963), 55(7), 32-9
CODEN: JIECAD; ISSN: 0095-9014
DT Journal
LA Unavailable
AB Heats and free energies of formation of inorg. compds. are correlated by equations of the form, $-\Delta H_f = nAB(XB - XA)^2 + nAYA + nBYB + nAB(WA/WB)$, where subscripts A and B refer to the cation and the anion, resp., nAB is the apparent number of single bonds, nA and nB are the nos. of atoms of A and B in the mol., and X, Y, and W are parameters determined from exptl. data. The equation for $-\Delta F_f$ is identical in form. The average deviation of calculated from exptl. values of $-\Delta H_f$ for 611 compds. was 1.51-1.98 and of $-\Delta F_f$ for 270 compds., 1.57 kcal./mol. Estimated values of $-\Delta H_f$ for 475 compds., with an estimated uncertainty of 15 kcal./mol, are tabulated.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Action of carbon monoxide on cesium hydroxide (synthesis of cesium formate)
AN 1949:10368 CAPLUS
DN 43:10368
OREF 43:2109i,2110a
TI Action of carbon monoxide on cesium hydroxide (synthesis of cesium formate)
AU Hackspill, Louis; Thomas, Georges
SO Compt. rend. (1948), 227, 797-9
DT Journal
LA Unavailable
AB A Ag U-tube 25 cm. high, one side 2 cm. in diameter, the other 0.5 cm. and wound for electric heating, is used as a reaction vessel. The larger side contains 0.5 + 0.5-cm. Ag Raschig rings. Place 10 g. CsOH (m. 272°) in the larger side, and heat to 280-300°. Pass 5 l. pure CO into the smaller side over a 1-hr. period. The temperature may rise 10-20°. Yield about 90%. If the initial temperature is above 300°, Cs₂C₂O₄ is formed.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
21.24	29.18

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.00	-3.00

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STN INTERNATIONAL SESSION SUSPENDED AT 06:06:23 ON 07 MAR 2006